

## Product datasheet

# Anti-GSTA1 antibody [EPR19969] ab207413

Recombinant RabMAb

[1 References](#) [5 Images](#)

### Overview

<b>Product name</b>	Anti-GSTA1 antibody [EPR19969]
<b>Description</b>	Rabbit monoclonal [EPR19969] to GSTA1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human GSTA1 full length recombinant protein; HepG2 and Caco-2 whole cell lysates; Human pancreas, fetal lung, fetal liver, testis and fetal kidney lysates. IP: HepG2 whole cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19969
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab207413 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Detects a band of approximately 26 kDa (predicted molecular weight: 26 kDa).
IP		1/30.

## Target

### Function

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.

### Tissue specificity

Liver.

### Sequence similarities

Belongs to the GST superfamily. Alpha family.  
Contains 1 GST C-terminal domain.  
Contains 1 GST N-terminal domain.

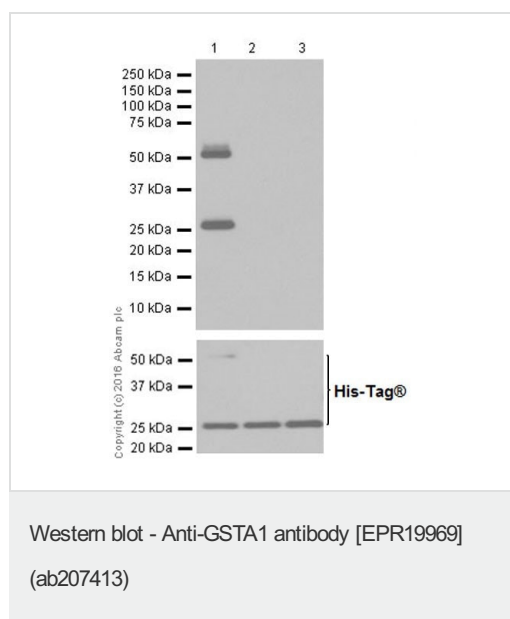
### Domain

The C-terminal domain may form a component of the hydrophobic substrate-binding site, but in contrast appears not to be directly involved in GSH binding and is not absolutely essential for catalytic activity.

### Cellular localization

Cytoplasm.

## Images



**All lanes** : Anti-GSTA1 antibody [EPR19969] (ab207413) at 1/2000 dilution

**Lane 1** : Human GSTA1 full length recombinant protein

**Lane 2** : Human GSTA2 full length recombinant protein

**Lane 3** : Human GSTA3 full length recombinant protein

Lysates/proteins at 0.02 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 26 kDa

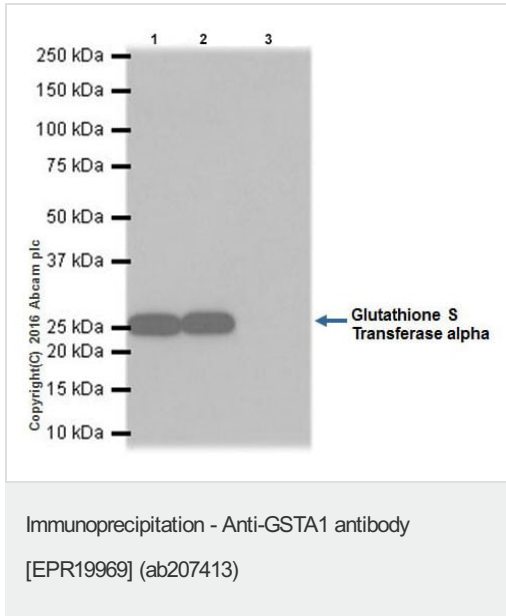
**Observed band size:** 26 kDa

**Exposure time:** 5 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

GSTA1, A2, and A3 are His-Tagged full-length (aa1-222) recombinant proteins.

GSTA4 and A5 were not recognized by ab207413 (data not shown).



GSTA1 was immunoprecipitated from 0.35 mg of HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate with ab207413 at 1/30 dilution.

Western blot was performed from the immunoprecipitate using ab207413 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

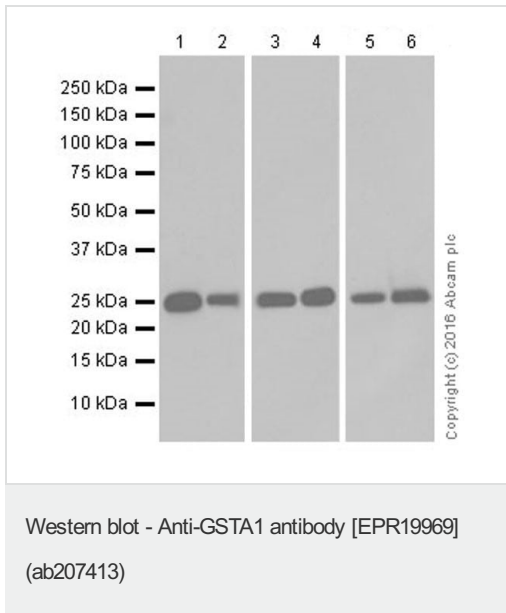
Lane 1: HepG2 whole cell lysate, 10µg (Input).

Lane 2: ab207413 IP in HepG2 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control (ab172730) instead of ab207413 in HepG2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.



**All lanes :** Anti-GSTA1 antibody [EPR19969] (ab207413) at 1/5000 dilution

**Lane 1 :** HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

**Lane 2 :** Caco-2 (Human colorectal adenocarcinoma cell line) whole cell lysate

**Lane 3 :** Human pancreas lysate

**Lane 4 :** Human fetal lung lysate

**Lane 5 :** Human fetal liver lysate

**Lane 6 :** Human testis lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**Lanes 1-2 :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

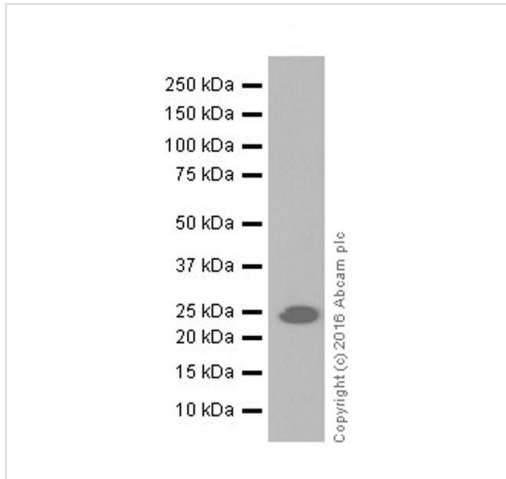
**Lanes 3-6 :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size:** 26 kDa

**Observed band size:** 26 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1,2,3 and 4: 3 minutes; Lane 5 and 6: 1 second.



Western blot - Anti-GSTA1 antibody [EPR19969] (ab207413)

Anti-GSTA1 antibody [EPR19969] (ab207413) at 1/2000 dilution + Human fetal kidney lysate at 20 µg

### Secondary

Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution





**Predicted band size:** 26 kDa

**Observed band size:** 26 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-GSTA1 antibody [EPR19969] (ab207413)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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